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Program Specific Learning Outcomes

M.B.B.S.

PROGRAM SPECIFIC LEARNING OUTCOME – I MBBS (ANATOMY)

Sr.no	Learning outcome Knowledge	Assessment	Activity
1.	Describe the anatomy of female reproductive system, correlate the gross, microscopic and embryological aspects and their clinical significance	• Draw & label test • Formative assessment on Google Classroom – scenario based MCQ • Part completion test theory & practical's • MCQ, BAQ, SAQ & LAQ • Summative assessment	• Lectures • Early clinical exposure • Demonstrations • Self directed learning • Seminar The Tubes
2.	Describe and discuss the structural & functional correlation of Microscopic anatomy of gastrointestinal tract.	• Draw & label test • Formative assessment on Google Classroom scenario based MCQ • Part completion test • Weekly Spots • MCQ, BAQ & SAQ • Summative assessment	• Lectures • Briefing & demonstration on projecting microscope • Weekly histology practicals • Weekly histology quiz
3.	Describe the brachial plexus Formation, its branches and applied aspect. Describe the root value course & relations of nerves of upper limb and discuss the anatomical basis of nerve injuries.	• Formative assessment on Google Classroom • Part completion test - – MCQ, BAQ, SAQ & LAQ • OSPE Summative assessment	• Lectures • Team learning • Problem based learning • Briefing & demonstration • Seminar Nerve injuries
4.	Describe the Morphology, Lymphatic drainage, Blood supply and applied anatomy of Mammary gland. Discuss the microscopic structure of lactating and non lactating mammary gland.	• Formative assessment on Google Classroom • Short answer question test • Draw & label test • Part completion test - – MCQ, BAQ, SAQ & LAQ • OSPE • Summative assessment	• Lectures • Problem based learning • Early clinical exposure
5.	Describe the parts, attachments, ossification & applied aspect of bones of the Superior Extremity.	• Osteology test • Part completion ostelogy viva • OSPE • Summative assessment	• LCD • Small group teaching & Demonstration • Self directed learning

Sr.no	Learning outcome Knowledge	Assessment	Activity
6.	Describe the anatomy of Pluera, correlate the grossand embryological aspects and their clinical significance	• Draw & label test • Formative assessment on Google Classroom • MCQ, BAQ, SAQ • OSPE • Summative assessment	• Lectures • Early clinical exposure • Problem based learning •
7.	Describe and discuss theVeins of the inferior extremity . Discuss the varicose veins and its anatomical basis	• Formative assessment on Google Classroom • BAQ , SAQ & LAQ • OSPE • Summative assessment	• Lectures • Early clinical exposure • Problem based learning
8.	Describe & discuss the Anterior abdominal wall ,its layers , modifications & surgical anatomy. Describe the Inguinal canal and discuss the anatomical basis of inguinal hernia.	• Formative assessment on Google Classroom • Part completion test • OSPE • Summative assessment	• Lectures • Problem based learning • Early clinical exposure • Dissection & demonstration
9.	Describe & discuss the development of Pharyngeal arches & face. Discuss the embryological basis of developmental anomalies of face & pharyngeal arches.	• Formative assessment on Google Classroom • Short answer question test • Draw & label test • MCQ, SAQ & BAQ	• Lectures • Problem based learning • Embryology model discussion - SGT
10.	Describe & Discuss the gross features, Blood supply & embryology ofheart. Discuss the anatomical basis of cardiovascular disease.	• Formative assessment on Google Classroom • Short answer question test • Draw & label test • MCQ, SAQ & BAQ	• Lectures • Problem based learning • Early clinical exposure • Dissection & demonstration • Embryology model discussion - SGT

Sr.no	Learning outcome Skill	Assessment	Activity
1.	Describe the living anatomy ofsuperior extremity & its clinical correlations.	• Viva • OSPE	• LCD • Demo • SGT • SDL
2.	Describe and discuss specimens of Head Neck & Face region – Larynx, Pharynx, Tongue , Triangles of neck , Sagital sections of head & neck	• Formative assessment on Google Classroom • BAQ , SAQ & LAQ • OSPE • Viva	• Lectures • LCD • Team learning activity • Early clinical exposure • Problem based learning • Demo • Dissection • SGT • SDL

PROGRAM SPECIFIC LEARNING OUTCOME – I MBBS (PHYSIOLOGY)

Sr.No	Learning Outcome	Learning Domain	Teaching Learning Methods	Assessment Methods
1	Describe the role various organs and organ systems in normal human body for maintaining homeostasis	Cognitive	Lectures, Small group discussions, Seminars.	Formative and Summative assessment. MCQ, BAQ, SAQ, LAQ & VIVA
2	Describe the pathophysiology of various diseases which occur due to failure of homeostatic mechanisms.	Cognitive	Lectures, Small group discussions, Seminars.	Formative and Summative assessment. MCQ, BAQ, SAQ, LAQ & VIVA
3	Explain the physiological basis of management of disease conditions which occurs due to failure of homeostatic mechanisms	Cognitive	Lectures, Small group discussions, Seminars.	Formative and Summative assessment. MCQ, BAQ, SAQ, LAQ & VIVA
4	Perform the various basic haematological investigations and interpret the normal findings	Cognitive & Psychomotor	DOAP, Small group discussions.	Practical examination, OSPE & VIVA
5	Perform and interpret the findings of clinical examination on normal human volunteers	Cognitive, Psychomotor & Communication skills	DOAP, Small group discussions.	Practical examination, OSPE & VIVA
6	Perform and interpret the findings of various investigations like, ECG, Spirometry, Stethograply. Ergography etc. on normal human volunteers.	Cognitive, Psychomotor & Communication skills	DOAP, Small group discussions	Practical examination, OSPE& VIVA
7	Interpret the findings of experiments on amphibian heart and nerve muscle using graphs and charts	Cognitive	Small group discussions	OSPE & VIVA
8	Perform the Basic Life Support effectively on manikin	Cognitive & Psychomotor skills	DOAP, Small group discussions	Practical examination, OSPE& VIVA

PROGRAM SPECIFIC LEARNING OUTCOME- I MBBS (BIOCHEMISTRY)

Learning Outcome Knowledge	Assessment	Activity
1. Explain the Biochemical basis of life	• Formative & Summative examination, comprising of MCQ,BAQ,SAQ & LAQ	• Lectures • Seminars • Practicals • Small group discussion
2. Describe the overview of different metabolism	• Formative & Summative examination, comprising of MCQ,BAQ,SAQ & LAQ • Viva • Log book	• Lectures • Practicals • Tutorials
3. Nutrition – Clinical significance	• Formative & Summative examination comprising of MCQ,BAQ,SAQ & LAQ • Viva • Practical examination • OSPE	• Small group learning & teaching • Problem based discussion
4. Understanding of molecular biology	• Formative & Summative examination, comprising of MCQ,BAQ,SAQ & LAQ	• Lectures • Case based discussion • Tutorials
5. Advance biochemistry and their role in diagnosis and management	• Formative & Summative examination, comprising of MCQ,BAQ,SAQ & LAQ • OSPE	• Lectures • Seminars by students • Case based discussion
Skills		
1. Biochemical lab investigation	• Practical examination • Log book	• Small group learning and demonstration of procedure • DOAP
2. Collection & storage of different biological fluids. Exposure to biomedical waste & quality control in labs	• Pre and post MCQ test • OSPE	• Case based discussion and interpretation of clinical scenario and lab tests
3. Qualitative and quantitative experiments	• Practical examination and viva	• Demonstration of various tests and student performing

		under supervision
4. Perform simple bedside tests on blood, urine and other biological fluid samples.	• Practical examination • Log book	• Small group learning on various biological samples.
5. Exposure to various instruments CCL	• Formative & Summative examination, comprising of MCQ,BAQ,SAQ & LAQ • Viva	• Lectures • Integration with other departments

Phase II

PROGRAM SPECIFIC LEARNING OUTCOME- II MBBS (PHARMACOLOGY)

Learning Outcome Knowledge	Assessment	Activity
Describe Absorption, distribution, Metabolism, Excretion of drugs	• Formative & Summative examination, comprisingof MCQ,BAQ,SAQ & LAQ	• Lectures • Seminars • Small group discussion
Describe principles of Pharmacovigilance &ADR reporting systems	• Formative & Summative examinationcomprising of MCQ,BAQ,SAQ & LAQ • Viva • Practical examination • OSPE	• Small group learning • practical
Describe the mechanisms ofaction, types, doses, side effects, indications and contraindications of antihypertensive drugs and drugs used in shock	• Formative & Summative examination, comprisingof MCQ,BAQ,SAQ & LAQ	• Lectures • Case based discussion • Tutorials
4. Describe the mechanisms ofaction, types, doses, side effects, indications and contraindications of drugs used in hematological disorders like: 1. Drugs used in anemias 2. Colony stimulating factors	• Formative & Summative examination, comprisingof MCQ,BAQ,SAQ & LAQ	• Lectures • Seminars by students • Case based discussion
Describe the mechanism of action, types, doses, side effects, indications and contraindications of the drugs used in malaria, amebiasis and intestinal helminthiasis	Formative & Summative examination, comprisingof MCQ, BAQ, SAQ & LAQ	• Lectures • Case based discussion Tutorials
Skills		
Demonstrate understanding ofthe use of various dosage forms (oral/local/ parenteral: solid/liquid)	• Skill assessment	• Small group learning • DOAP session

Prepare oral rehydration solution from ORS packet andexplain its use.	• Skill assessment	• Small group learning • DOAP session
Perform a critical evaluationof the drug promotional	• OSPE	• Small group learning

Literature		
Communicate with the patientwith empathy and ethics on all aspects of drug use	• Skill station	• Small group learning.
Administer drugs through various routes in a simulatedenvironment using mannequins	• Skill assessment	• DOAP session •

PROGRAM SPECIFIC LEARNING OUTCOME- II MBBS (FMT)

Sr.No	Learning Outcome Knowledge	Assessment	Activity
1	Comprehend the Criminal Administration Justice System & Medical Jurisprudence.	Formative Assessment And Summative Assessment MCQ, SAQ, LAQ	- Lecture - Seminar - SDL
2	Know Medico Legal Duties of a Registered Medical Practitioner.	Formative Assessment And Summative Assessment MCQ, SAQ, LAQ	- Lecture - Seminar - Tutorials
3	Be competent to examine and prepare report or certificate in medico legal cases/situations inaccordance with the law of Land.	Formative Assessment And Summative Assessment MCQ, SAQ, LAQ	- Lecture - Seminar Case based scenario & Casualty posting
4	Acquaint with procedure of medico legal postmortem examination and interpret findings and results of other relevant investigations to logically conclude the cause, and relevant opinion	Formative Assessment And Summative Assessment MCQ, SAQ, LAQ	- Lecture - Seminar - Case based scenario
5	Inculcate principles of Bioethics medical ethics, etiquette, duties,rights, medical negligence and legal responsibilities of RMP, towards patient, profession, society, state and humanity.	Formative Assessment And Summative Assessment MCQ, SAQ, LAQ	- Lecture - Seminar - Case based scenario - Role Play
6	To be conversant with provisions of MTP Act, 1971 with latest Amendments 2021,The POCSO Act, 2012, Amended Criminal Procedure Act with respect to Offences perpetrated on young girls, women with reference to harassment at work place.	Formative Assessment And Summative Assessment MCQ, SAQ, LAQ	- Lecture - Seminar - SDL - Case based scenario - Role Play

Skills:			
1	Grasp minutely facts and arrive at logical inferences so as to assist Investigating Officers.	Practical examination Assessment of skills like Age assessment, Injury Report, Weapon report	Small group discussion Actual observation of PM examination & Casualty posting
2	Diagnose and treat common emergencies in poisoning andmanage chronic toxicity.	Practical examination Eg: Alcohol Intoxication case	Case based discussion andinterpretation of toxicology test
3	Medico legal autopsy examination	Viva , SAQ, LAQ	Practical Observation of Medico Legal autopsy & Videos of autopsy
4	Observe the principles of Bio Ethics & Medical Ethics	Formative Assessment And Summative Assessment MCQ, SAQ, LAQ	SDL Small Group Discussion Role Plays
5	Proper collection , preservation ,labeling and sealing of trace elements ,specimens collected atPM examination or examinationof victim or accused	Formative Assessment And Summative Assessment MCQ, SAQ, LAQ Viva	Actual demonstration of Packing, labeling, sealing of such material

PROGRAM SPECIFIC LEARNING OUTCOME- II MBBS (MICROBIOLOGY)

Learning Outcome Knowledge	Assessment	Activity
State the etiology, pathogenesis and methods of laboratory diagnosis andapply that knowledge in the diagnosis, treatment, prevention andcontrol of communicable diseases caused by microorganisms.	• Formative & Summative examination, comprising of MCQs, BAQs, SAQs & LAQs Viva - QSPE	• Lectures • Seminars • Practicals • Small group discussion • Seminars
Understand commensal, opportunistic and pathogenic organisms of human body and describe host parasite relationship.	• Formative & Summative examination, comprising of MCQ,BAQ,SAQ & LAQ • Viva- QSPE	• Lectures • Small group discussion • Seminars • Tutorials
Know and describe the pathogenesisof diseases caused by microorganisms.	• Formative & Summative examination, comprising BAQ, SAQ & LAQ	• Lectures • Seminars
State the sources and modes of transmission of pathogenic and opportunistic micro-organisms including knowledge of insect vectors & their role in transmissionof infectious diseases.	• Formative & Summative examination, comprising MCQ, BAQ, SAQ &LAQ	• Lectures • Small group discussion • Tutorials
choose appropriate laboratory investigations required for clinical diagnosis	• Formative & Summative examination, comprising of MCQ, BAQ, SAQ & LAQ • Viva • Choose appropriateculture media/metrical for cultivation of micro organism	• Practicals • Small group discussion • Tutorials

Skills		
Plan and interpret laboratory investigations for diagnosis of infectious diseases and correlatethe clinical manifestations with the etiological agent.	• Gram Staining • ZN staining • OSPE, Viva	• Small group Teaching • DOAP • Practical demonstratio n
Identify common infectious agents with the help of laboratory procedure, acquire knowledge of antimicrobial agents, use of antimicrobial sensitivity tests to select suitableantimicrobial agents for treatment.	• Special staining • Culture methods Biochemical reactions • ABST- Viva	• Small group learning • Demonstration • Case based discussion and interpretation of clinical scenario and lab tests
Perform simple laboratory tests,which help to arrive at rapid diagnosis.	• Gram stain& ZN stain stool exam, KoH munt serological rapid tests • Practical examinationand viva	• Small group learning, teaching & demonstration • Interpretation ofresult- DOAP
Be conversant with proper methods of collection, storage & transport of clinical materialfor microbiological investigations.	MCQ Viva	• Small group learning & demonstratio n
Understand the principles of immunology and its applicationin the diagnosis and preventionof infectious diseases includingimmunization schedule, acquireknowledge of the scope of immunotherapy and different vaccines available for the prevention of communicable diseases.	• SAQS , MCQs • Viva	• Small group learning & demonstratio n
Understand methods of disinfection and sterilization and their application to controland prevent hospital and community acquired infections including universal biosafety precautions and waste disposal	• SAQS , MCQs • Viva •	• Small group learning • Laboratory CSSD and Hospital visits
Recommend laboratory investigations regarding bacteriological examination offood, water, milk and air.	• Viva	• Visit to Laboratory testing food, water,milk,

8. The student should be well equipped with the knowledge of prevalent communicable diseases of national importanceand of the newer emerging pathogens	• Viva	• Small group learning • Seminars

PROGRAM SPECIFIC LEARNING OUTCOME- II MBBS (PATHOLOGY)

Learning Outcome	Assessment	Activity
Knowledge		
Explain the Patho physiologicalprocesses which governs the maintenance of homeostasis, mechanism of their disturbancesand the morphological and clinical manifestation associated with it.	• Formative & Summative assessment,comprising of MCQ,BAQ,SAQ & LAQ	• Lectures • Seminars • Practicals • Small group discussion
Describe the mechanisms andpatterns of tissue response to injury to appreciate the Pathophysiology of disease processes and their clinical manifestations	• Formative & Summative assessment,comprising of MCQ,BAQ,SAQ & LAQ • Viva	• Lectures • Practicals • Tutorials
Correlate the gross and microscopic alterations of different organ systems in common diseases to the extent needed to understand disease processes and their clinical significance..	• Formative & Summative assessmentcomprising of MCQ,BAQ,SAQ & LAQ • Viva • Practical examination • OSPE	• Small group learning of specimens and histopatholog yslides • Weekly prcaticals
Develop an understanding of neoplastic change in the body in order to appreciate need for earlydiagnosis and further management of neoplasia	• Formative & Summative assessment,comprising of MCQ,BAQ,SAQ & LAQ	• Lectures • Case based discussion • Tutorials
Understand mechanisms of common haematological disorders and develop a logicalapproach in their diagnosis andmanagement.	• Formative & Summative assessment,comprising of MCQ,BAQ,SAQ & LAQ • OSPE • Hemogram interpretation • Clinical tray viva	• Lectures • Seminars by students • Case based discussion
Skills		
Demonstrate & perform various haematological & clinical pathological diagnostic laboratory tests	• Practical examination	• Small group learning and demonstration ofprocedure • DOAP

Interpret diagnostic laboratory tests and correlate with clinicaland morphological features of diseases	• Pre and post MCQ test • OSPE	• Case based discussion and interpretation ofclinical scenario and lab tests
Perform simple bedside tests on blood, urine and other biologicalfluid samples.	• Practical examination andviva	• Demonstration ofvarious tests and student performing under supervision
Recognize morbid anatomicaland histopathological changesfor the diagnosis of common disorder.	• Gross specimen viva • Histopathology slide diagnosis and viva	• Small group learning on gross specimens and microscopy of common diseases.
Understand biochemical/physiological disturbances that occur as a result of disease in collaborationwith pre-clinical departments.	• Formative & Summative assessment, comprising of MCQ,BAQ,SAQ & LAQ • Viva	• Lectures • Integration with other departments

Phase III Minor

PROGRAM SPECIFIC LEARNING OUTCOME III MBBS (COMMUNITY MEDICINE)

Learning Outcome	Assessment	Activity
Knowledge		
Define health; describe the conceptof holistic health including conceptof spiritual health and the relativeness & determinants ofhealth	Written/ Viva voce	Lecture, Small group discussion
Describe poverty and Social security measures and its relationship to health and disease	Written/ Viva voce	Lecture, Small group discussion
Describe concepts of safe and wholesome water, sanitary sourcesof water, water purification processes, water quality standards, concepts of water conservation and rainwater harvesting	Written/ Viva voce	Lecture, Small group discussion, DOAP session
Describe the common sources of various nutrients and special nutritional requirements according to age, sex activity, physiological conditions	Written/ Viva voce	Lecture, Small group discussion
Enumerate, describe and discuss the modes of transmission and measures for prevention and control of communicable and non-communicable diseases	Written/ Viva voce	Small group discussion, Lecture
Describe and discuss the epidemiological and control measures including the use of essential laboratory tests at the primary care level for non-Communicable diseases (diabetes,Hypertension, stroke, Obesity and cancer etc.)	Written/ Viva voce	Small group discussion, Lecture
Describe Universal Immunization Program; Integrated Management of Neonatal and Childhood Illness (MNCI) and other existing	Written/ Viva voce	Small group discussion, Lecture

Programs		
Enumerate and describe specific occupational health hazards, their risk factors and preventivemeasures	Written/ Viva voce	Small group discussion, Lecture
Skill		
Demonstrate Infection controlpractices and use of personal protective Equipment (PPE)	Skill assessment	DOAP session
Elicit document and present a medical history that helps delineatethe etiology of these diseases that includes the evolution and pattern of symptoms, risk factors, exposure through occupation and travel	Skill assessment	Bedside clinic, DOAP session

Visit a Child Developmentary unit and observe its functioning	Log book Entry	Lecture, Small group discussion
Describe and discuss the principlesand demonstrate the methods of collection, classification, analysis, interpretation and presentation of statistical data	Written/ Viva voce/ Skill assessment	Small group lecture, DOAP session

PROGRAM SPECIFIC LEARNING OUTCOME- III/I MBBS (Ophthalmology)

Learning Outcome	Assessment	Activity
Knowledge		
1. Explain various methods of recording visual acuity and assessment of central vision withpin hole	• OSCE • OSPE	• tutorial • small group teaching • demonstration • Seminars
2. Describe the procedure of estimation of Intra Ocular pressure by digital tonometry	• OSCE • OSPE	• small group teaching • demonstration • Tutorials
3. How to instill eye medication	• OSPE	• bed side teaching • demonstration
4. Understanding various types ofcolor blindness and assessment of color vision on Ichihara's chart	• OSCE • OSPE	• small group teaching • demonstration • Tutorials
5. Assessing anterior chamber depth on torch light examination in order to diagnose angle closureglaucoma	• OSPE • OSCE	• Lecture • Demonstration • Small group teaching
Skills		
1. Measurement of IOP by digital tonometry	• Practical examination	• Small group learning • demonstration of procedure • DOAP
2. Sac Syringing	• Practical Examination	• Small group learning • demonstration of procedure
3. Confrontation field testing and its importance	• Practical Examination	• Small group learning • demonstration of procedure
4. Pupillary reaction elicitation and clinical correlation	• Practical Examination	• Small group learning • demonstration of procedure
5. Ocular motility testing in all positions of gaze	• Practical Examination	• Small group learning • demonstration of procedure

PROGRAM SPECIFIC LEARNING OUTCOME- III MBBS (E.N.T)

Learning Outcome	Assessment	Activity
Knowledge		
1. Elicit document and present a correct history, demonstrate, anddescribe the clinical features, choose the correct investigations,and describe the principles of management of diseases of the external Ear	• Formative & Summative examination comprising of MCQ, BAQ, SAQ & LAQ • Viva voce • DOAP session,	• Lecture, Small group • discussion, • DOAP session, • Bedside clinic
2. Elicit document and present a correct history, demonstrate, anddescribe the clinical features, choose the correct investigations and describe the principles ofmanagement of ASOM	• Formative & Summative examination comprising of MCQ, BAQ, SAQ & LAQ • Viva voce	• Lecture, Small group • discussion, • DOAP session, • Bedside clinic
3. Describe the clinical features, investigations, and principles of management of Meniere's Disease	• Formative & Summative examination comprising of MCQ,BAQ,SAQ & LAQ • Viva voce	• Lecture, Small group discussion, • Demonstration •
4. Describe the clinical features, investigations, and principles of management of trauma to the face & neck	• Formative & Summative examination comprising of MCQ, BAQ, SAQ & LAQ • Viva voce	• Lectures • Case based discussion • Tutorials
5. Observe and describe the indications for and steps involved in a tonsillectomy / adenoidectomy	• Formative & Summative examination comprising of MCQ,BAQ,SAQ & LAQ • Viva voce	• DOAP session • Video demonstration • Direct observation • Discussion on a mannequin
Skills		
1. Enumerate the indications and interpret the results of an audiogram	• Practical examination • Skill assessment	• Lecture, • Small group discussion, • Demonstration • DAOP • Bedside Clinic
2. Demonstrate the correct techniquefor syringing wax from the ear in a simulated environment	• Practical examination • Skill assessment	• Lecture, • Small group discussion, • Demonstration • DAOP • Bedside Clinic
3. Observe and describe the indications for and steps involvedin the performance of diagnostic nasal Endoscopy	• Formative & Summative examination comprising of MCQ,BAQ,SAQ & LAQ • Viva voce	• Lecture, • Small group discussion, • Demonstration • DAOP

4. Observe and describe the indications for and steps involvedin the performance of Otomicroscopic examination in a simulated environment	• Formative & Summative examination comprising of MCQ,BAQ,SAQ & LAQ • Viva voce	• Lecture, Small group discussion, • Demonstration • DAOP • Bedside Clinic
5. Demonstrate the correct techniqueof examination of the nose & paranasal sinuses including the use of nasal speculum	• Skill assessment/ OSCE	• DAOP • Bedside Clinic

Phase III Major

PROGRAM SPECIFIC LEARNING OUTCOME- III / I MBBS (Gen. Medicine)

Learning Outcome	Assessment	Activity
Knowledge		
1. Explain pathophysiology ofacute coronary syndrome and the management of acute coronary syndrome.	• Formative & Summative assessment, comprising of MCQ,,SAQ& LAQ OSCE	• Lectures • Seminars • Demonstration inclinics • Small group discussion
2. Explain pathophysiology ofthe movement disorders and the management of Parkinson's disease.	• Formative & Summative assessment, comprising of MCQ,SAQ &LAQ OSCE • Viva	• Formative & Summative assessment, comprising of MCQ,SAQ &LAQ OSCE • Viva
Approach to case of chronic liver disease with ascites. Diagnosticand therapeutic interventions..	• Formative & Summative assessmentcomprising of MCQ,BAQ,SAQ & LAQ • Clinics • Viva • OSCE	• Lectures • Case based discussion Demonstration of the Ascitic tapping
Diabetes Mellitus management and complications. Useof various insulin combinations	• Formative & Summative assessment, comprising of MCQ, SAQ& LAQ. OSCE	• Lectures • Case based discussion • Demonstration ofinsulin syringes and pen
5. ECG interpretation	• Formative & Summative assessment, comprising of MCQ,SAQ & LAQ • Viva	• Lectures • Case based discussion •
Skills		
1. Pleural tapping	• Clinics	• Small group learning and demonstration of procedure • DOAP
2. Lumbar puncture	• Clinics in casualty and ICU	• Small group learning and demonstration of procedure
3. Perform simple	• Clinics	Small group learning and

bedside tests onblood, urine andother biological fluid samples.		demonstration of procedure
4. Ascitic tapping.	• Clinics	• Small group learning and demonstration of procedure

PROGRAM SPECIFIC LEARNING OUTCOME- UG(MBBS - PAEDIATRICS)

Learning outcome	Assessment	Activity
Cognitive domain; Knowledge		
1. Explain the components of the Universal immunization Program and Vaccine description with regard to classification of vaccines, strain used, dose, route, schedule, risks, benefits and side effects, indications andcontraindications	• Formative & Summative examination, comprising of MCQs,BAQs , SAQs & LAQs. •Viva Voce.	• Lectures • Tutorials • Seminars • Practicals • Small group discussion
2. Discuss the etiology, clinical presentation andmanagement of Acute Lymphoblastic Leukemia in children.	• Formative & Summative examination, comprising of SAQs & LAQs.	• Lectures • Seminars • Bedside Clinics
3. Discuss the epidemiology, clinical features, types and complications of Tuberculosis in Children and Adolescents	• Formative & Summative examination, comprising of MCQs,SAQs & LAQs. Viva Voce.OSCE	• Lectures • Seminars • Bedside Clinics • Small group discussion
4. Describe the etio-pathogenesis , WHO classification , clinical features, complications and management of SevereAcute Malnourishment(SAM) and Moderate Acute Malnutrition (MAM)	• Formative & Summative examination, comprising of MCQ,BAQ,SAQ & LAQ. • Viva and OSCE	• Lectures • Seminars • Practicals • Bedside Clinic • Small group discussion
5.Discuss the etio pathogenesis, classification, clinical presentation and management of Diarrhealdiseases in children	• Formative & Summative examination, comprising of MCQ,BAQ,SAQ & LAQ • Viva • OSCE	• Lectures • Seminars • Practicals • Small group discussion • Bedside Clinics

SKILLS		
Examine Normal Neonatephysical and Neuromuscular criteria,and demonstrate Neonatal Reflexes.	• Bedside Practical examination. • OSCE	• Small group learning and demonstration of Clinical Methods. • DOAP
Examine a Case of PEM,and assess signs of Kwashiokor and Marasmus.	• Bedside Practical examination • OSCE	• Case based discussion and interpretation ofclinical signs.
Describe various routes of administration of Vaccines and Perform IM Injection .	• Practical examination andviva.	• Demonstration ofvarious techniques and performing under supervision.
Describe methods of Neonatal Resuscitation,and PerformAmbu Bag &mask Ventilation on Mannequin.	• Viva and Practical Examination.	• Small group learning , Use of Mannequinand Resuscitation Equipments.
Discuss Causes of Hepatosplenomegaly, and demonstrate methods of Palpation of Liver, and Spleen.	• SAQs & LAQs. • Viva	• Bedside demonstration ofthe techniques involved. • Integration with other departments

PROGRAM SPECIFIC LEARNING OUTCOME- II MBBS (SURGERY)

Learning Outcome	Assessment	Activity
Knowledge		
1. Explain the Patho physiological processes which governs the maintenance of homeostasis, mechanism of their disturbances and the morphological and clinical manifestation associated with these disturbances which present as common surgical problems in outpatients.	• Formative & Summative assessment,comprising of MCQ,BAQ,SAQ & LAQ	• Lectures • Seminars • Practicals • Small group discussion
2. Describe the mechanisms and patterns of tissue response to injury to appreciate the Pathophysiology of disease processes and their various clinicalmanifestations in patients attending surgical opd as well as indoor admitted patients and plan their management.	• Formative & Summative assessment,comprising of MCQ,BAQ,SAQ & LAQ • Viva	• Lectures • Practicals • Tutorials
3. Correlate the clinical symptoms and signs due to alterations of different organ systems in common diseases to the extent needed to understand disease processes and their clinical significance, so as to effectively design a plan of management for such commonly presenting casescenarios.	• Formative & Summative assessment comprising of MCQ,BAQ,SAQ & LAQ • Viva • Practical examination • OSPE • OSCE	• Small group learning of specimens and Radiologica l plates. • Weekly tutorials. • Clinical postings.
4. Develop an understanding of the clinical presentation of neoplastic change in the body in order to appreciate need for early diagnosisand further management of common neoplasia cases.	• Formative & Summative assessment,comprising of MCQ,BAQ,SAQ & LAQ	• Lectures • Clinical postings. • Case based discussio n • Tutorials
5. Understand mechanisms of common surgical disorders and develop a logical approach in theirdiagnosis and management.	• Formative & Summative assessment,comprising of MCQ,BAQ,SAQ & LAQ • OSPE • OSCE • Clinical viva	• Lectures • Seminars bystudents • Case based discussio n

Skills		
1. Demonstrate & perform various clinical assessments of organ systems in common surgical patients.	• Practical examination • OSCE • OSPE	• Small group learning and demonstration ofprocedure • DOAP
2. Elicit a complete patient history develop the ability to correlate with clinical and morphological features of common surgical diseases	• Pre and post MCQ test • OSPE	• Case based discussion and interpretation of clinical scenario.
3. Perform simple bedside tests on in ward patients to elicit specific signs of common surgical diseases.	• Practical examination andviva	• Demonstration ofvarious tests and student performing under supervision
4. Recognize morbid anatomical and radiological changes for the diagnosis of common surgical disorders	• Gross specimen viva • Radiological diagnosis and viva	• Small group learning on grossspecimens and radiological interpretations ofcommon surgical diseases.
5. Understand clinical and physical disturbances that occur as a resultof disease in collaboration with pre-clinical departments.	• Formative & Summative assessment, comprising ofMCQ,BAQ,SAQ & LAQ • Viva	• Lectures • Integration with other departments

PROGRAM SPECIFIC LEARNING OUTCOME (MBBS OBSTETRICS&GYNAECOLOGY)

LEARNING OUTCOME		ASSESSMENT	ACTIVITY
KNOWLEDGE	SLO		
Anatomy of the female reproductive tract,	Describe the anatomy of female reproductive tract Describe relationship of pelvic organs to one another Describe the blood supply, nerve supply, and lymphaticdrainage of female genital organs Describe the development offemale reproductive tract Applied anatomy	LAQ, SAQ,MCQs	Lecture, Integration with anatomy
Physiology of menstruation	Describe physiology of menstruation and its neuroendocrine controlthrough HPO axis.	LAQ, SAQ,MCQs	Lecture Integration with physiology
Physiology of gametogenesis, Ovulation, conception, implantation , & reproductive endocrinology	Describe spermatogenesis, oogenesis, fertilization, implantation and early decidual changes	LAQ,SAQ,MCQs	Lecture Integration with physiology
Early development of embryo and fetus, developmentof Placenta, amniotic fluid, cord		LAQ,SAQ,MCQs	Lecture Integratio nwith Anatomy
Embryology and developmental defects of femalegenital tract	List investigation for diagnosis of Mullerian duct anomalies Clinical significance of Mullerian duct anomalies	LAQ,SAQ,MCQs	Lecture Integratio nwith Anatomy

Diagnosis of pregnancy	Describe clinical features of pregnancy correctly Discuss d/d of suprapubic lump in women Describe chemical tests of pregnancy	LAQ,SAQ,MCQs,VIVA, Practical exam	Case based discussion
SKILL			
Antenatal Care, detailed history,and Obstetric examination	Define antenatal care Enumerate aims and objectivesof ANC care Categorise a patient into highrisk/low risk according to history	Practical examination	Small group learning and demonstrati on of procedure DOAP Case based discussion
Psychomotor Domain			
1. Able to perform routine examination in the opd and IPD. Conduct normal deliveries Assist in Major and minor Obgy procedures confidently and correctly	• Practical and viva • Day to day assessmen t	• Skill Labs	

DEAN
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